

IN THE CLAIMS

1. (Currently Amended) A liquid crystal display device having a transparent first substrate, a transparent second substrate, and a liquid crystal layer and a color filter layer sandwiched between the first and second substrates, ~~comprising~~wherein:

~~said color filter layer disposed on said first substrate;~~

~~said liquid crystal layer disposed between said color filter layer and said second substrate;~~

plural scan signal electrodes, video signal electrodes for crossing said scan signal electrodes in a matrix form and plural thin film transistors formed in association with the crossing points between said scan signal electrodes and said video signal electrodes ~~provided are disposed~~ are disposed on said first substrate ~~below said color filter layer;~~

a gate insulation film disposed on said first substrate and between a gate and a source or a drain of at least one of said plural thin film transistors;

a protection film is disposed on said gate insulation film or said plural thin film transistors;

said color filter layer is disposed on said protection film;

an interlayer separation film is disposed above said color filter layer;

at least one pixel area is formed in each of areas surrounded by said plural scan signal electrodes and said video signal electrodes;

each pixel area is provided with a common electrode which is connected with other common electrodes over plural pixels-pixel areas through a common electrode wire to supply reference potential, and a pixel electrode which is

connected to the corresponding thin film transistor and disposed so as to confront said common electrode in said pixel area; and

said common electrode and said pixel electrode are disposed between said color filter layer and said liquid crystal layer;

~~wherein~~ said common electrode and said pixel electrode are disposed in different layers through ~~an~~ said interlayer separation film ~~termed of a transparent insulating material~~, and

wherein electric field having a component which is dominantly parallel to said first substrate is produced in said liquid crystal layer by applying a voltage across said common electrode and said pixel electrode;

~~wherein the liquid crystal before the voltage is applied thereto is orientated substantially in parallel to said first substrate; and~~

~~wherein a light shielding portion is formed above said thin film transistor.~~

2. (Original) The liquid crystal display device as claimed in claim 1, wherein at least one of said common electrode and said pixel electrode is formed of a transparent conductive film.

3. (Previously Presented) The liquid crystal display device as claimed in claim 1 wherein said interlayer separation film is formed on said common electrode, and said pixel electrode is formed on said interlayer separation film.

4. (Currently Amended) The liquid crystal display device as claimed in claim 1, ~~having a transparent first substrate, a transparent second substrate, and a liquid~~

~~crystal layer and a color filter layer sandwiched between the first and second substrates, comprising:~~

~~said color filter layer disposed on said first substrate;~~

~~said liquid crystal layer disposed between said color filter layer and said second substrate;~~

~~plural scan signal electrodes, video signal electrodes for crossing said scan signal electrodes in a matrix form and plural thin film transistors formed in association with the crossing points between said scan signal electrodes and said video signal electrodes provided on said first substrate below said color filter layer;~~

~~at least one pixel formed in each of areas surrounded by said plural scan signal electrodes and said video signal electrodes;~~

~~each pixel provided with a common electrode which is connected over plural pixels through a common electrode wire to supply reference potential, and a pixel electrode which is connected to the corresponding thin film transistor and disposed so as to confront said common electrode in said pixel area; and~~

~~said common electrode and said pixel electrode disposed between said color filter layer and said liquid crystal layer;~~

~~wherein said common electrode and said pixel electrode are disposed in different layers through an interlayer separation film termed of a transparent insulating material, and~~

~~wherein electric field having a component which is dominantly parallel to said first substrate is produced in said liquid crystal layer by applying a voltage across said common electrode and said pixel electrode;~~

~~wherein the liquid crystal before the voltage is applied thereto is orientated substantially in parallel to said first substrate; and~~

~~wherein an overcoat layer for protecting said color filter layer is formed on said color filter layer, said interlayer separation film is formed on said common electrode and or on said overcoat layer, and said pixel electrode is formed on said interlayer separation film.~~

5. (Withdrawn) The liquid crystal display device as claimed in claim 1,
~~having a transparent first substrate, a transparent second substrate, and a liquid crystal layer and a color filter layer sandwiched between the first and second substrates,~~
~~comprising:~~

~~said color filter layer disposed on said first substrate;~~

~~said liquid crystal layer disposed between said color filter layer and said second substrate;~~

~~plural scan signal electrodes, video signal electrodes for crossing said scan signal electrodes in a matrix form and plural thin film transistors formed in association with the crossing points between said scan signal electrodes and said video signal electrodes provided on said first substrate below said color filter layer;~~

~~at least one pixel formed in each of areas surrounded by said plural scan signal electrodes and said video signal electrodes;~~

~~each pixel provided with a common electrode which is connected over plural pixels through a common electrode wire to supply reference potential, and a pixel electrode which is connected to the corresponding thin film transistor and disposed so as to confront said common electrode in said pixel area; and~~

~~said common electrode and said pixel electrode disposed between said color filter layer and said liquid crystal layer;~~

~~wherein said common electrode and said pixel electrode are disposed in different layers through an interlayer separation film termed of a transparent insulating material, and~~

~~wherein electric field having a component which is dominantly parallel to said first substrate is produced in said liquid crystal layer by applying a voltage across said common electrode and said pixel electrode;~~

~~wherein the liquid crystal before the voltage is applied thereto is orientated substantially in parallel to said first substrate; and~~

~~wherein an overcoat layer for protecting said color filter layer is formed on said color filter layer, said interlayer separation film is formed on said pixel electrode and or on said overcoat layer, and said common electrode is formed on said interlayer separation film.~~

6. (Currently Amended) The liquid crystal display device as claimed in claim 1, wherein said common electrode is formed in a grid shape so as to surround a pixel area; said pixel electrode is disposed so as to traverse the pixel area; and said common electrode commonly uses a part of said common electrode wire.

7. (Currently Amended) The liquid crystal display device as claimed in claim 1, wherein a plurality of said common electrodes and said pixel electrodes are arranged in the pixel area.

8. (Currently Amended) The liquid crystal display device as claimed in claim 6, wherein said common electrode is ~~formed~~ disposed so that the thin film transistor is hidden behind said common electrode when viewed from the side of said second substrate.

9. (Currently Amended) The liquid crystal display device as claimed in claim 6, wherein said common electrode is ~~formed~~ disposed so that said scan signal electrodes and said video signal electrodes are hidden behind said common electrode when viewed from the side of said second substrate.

10. (Currently Amended) ~~A~~ The liquid crystal display device as claimed in claim 1, having a first transparent substrate, a second transparent substrate, and a liquid crystal layer and a color filter layer sandwiched between the first and second substrates.
comprising:

~~said color filter layer disposed on said first substrate;~~

~~said liquid crystal layer disposed between said color filter layer and said second substrate;~~

~~plural scan signal electrodes, video signal electrodes for crossing said scan signal electrodes in a matrix form and plural thin film transistors formed in association with the crossing points between said scan signal electrodes and said~~

~~video-signal electrodes provided on said first substrate below said color filter layer;~~

~~at least one pixel formed in each of areas surrounded by said plural scan signal electrodes and said video-signal electrodes;~~

~~each pixel provided with a common electrode which is connected over plural pixels through a common electrode wire to supply reference potential, and a pixel electrode which is connected to the corresponding thin film transistor and disposed so as to confront said common electrode in said pixel area;~~

~~said common electrode and said pixel electrode disposed between said color filter layer and said liquid crystal layer;~~

~~wherein said common electrode and said pixel electrode disposed in different layers through an interlayer separation film formed of a transparent insulating material;~~

~~wherein electric field having a component which is dominantly parallel to said first substrate is produced in said liquid crystal layer by applying a voltage across said common electrode and said pixel electrode;~~

~~wherein the liquid crystal before the voltage is applied thereto is orientated substantially vertically to said first substrate; and~~

~~wherein a light shielding portion is formed above said thin film transistor.~~

Claims 11-18 (Cancelled)

19. (Original) The liquid crystal display device as claimed in claim 10, wherein an optically negative compensation film and an optically positive compensation

film are disposed between said first or second substrate and a polarizing plate to make anisotropy of refractive index of said liquid crystal layer and said compensation film isotropic.

20. (Previously Presented) The liquid crystal display device as claimed in claim 19, wherein the boundary at which the felling direction of the liquid crystal molecules is varied is beforehand formed along two directions in which liquid crystal molecules are felled when a voltage is applied.

21. (Previously Presented) The liquid crystal display device as claimed in claim 19, wherein the boundary at which the felling direction of the liquid crystal molecules is varied is beforehand formed in any one of directions in which liquid crystal molecules are felled when a voltage is applied.

22. (Original) The liquid crystal display device as claimed in claim 10, wherein liquid crystal contains an organic polymer compound.

Claims 23-39 (Cancelled)

40. (New) The liquid crystal display device as claimed in claim 1, wherein said interlayer separation film is formed of a transparent insulating material.

41. (New) The liquid crystal display device as claimed in claim 1, wherein the liquid crystal before the voltage is applied thereto is oriented substantially in parallel to said first substrate.

42. (New) The liquid crystal display device as claimed in claim 1, wherein a light shielding portion is formed above said thin film transistor.

43. (New) The liquid crystal display device as claimed in claim 1, wherein said color filter layer on a pixel area is connected with said color filter layer on another pixel area.

44. (New) The liquid crystal display device as claimed in claim 1, wherein said common electrode is disposed so that said scan signal electrodes and said video signal electrodes are hidden behind said common electrode when viewed from the side of said second substrate.

45. (New) The liquid crystal display device as claimed in claim 1, wherein a through hole is provided in said common electrode, and said pixel electrode is connected with said thin film transistor via said through hole.

46. (New) The liquid crystal display device as claimed in claim 1, wherein a thickness of said protection film is adjusted so that the surface of said protection film adjacent to said color filter layer becomes flat.

47. (New) The liquid crystal display device as claimed in claim 46, wherein both surfaces of said color filter layer are flat.